3923 Diag. Cht. No. 1222-2 C. & G. SURVEY
L. & A.
PEU = 3 1917
Ace. No. 1 1917

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

-5613

DESCRIPTIVE REPORT.

Hydrograf hier No. 3923

LOCALITY:

South Court
Of Chicapeake
Bay & Thinkle
Shoul

191/

CHIEF OF PARTY:

Paul C Whutney

Discriptive Report

to accompany Hydrographic Sheet

South Coast of Chesapeake Bay and Thimble Shoal

Virginia

executed during the period

July 7th, 1916 to January 9th, 1917

by the party attached to

Steamer Bache
Paul C. Whitney
Chief of Party

The hydrography on this sheet was executed in conformity with the Superintendent's instructions of J June 3, 1916.

The limits to be covered were drawn on a copy of Chart 1222, and this area was completed, excepting a few days of ship work, delayed by repairs and other conditions and this is to be finished during the summer of 1917.

The launch hydrography was executed by a party living first at Lynhaven Inlet and later shifting to Willoughby Spit. During the greater time the ship was undergoing repairs at Norfolk.

The positions of the signals used were either furnished by the office or depend upon locations determined this year by triangulation or topography.

The launch hydrography was executed with sufficient thoroughness and density of lines throughout the areas to be reasonable sure that the work would not call for any new surveys in the near future. The ship work was sounded out closer than called for in my instructions but the character of the bottom I think justified the closer development.

a tide staff established previously by Assistant Luce on the railroad bridge across Lynhaven Inlet and at a staff established by this party on the steamboat landing at the western end of Willoughby Spit. This staff was connected to the Lynhaven Staff by simultaneous readings.

Respectfully submitted

Chief of Party, C. & G. Survey

Command ing

Statistics Sheet No. 3923. Continued.
Cape Henry to Willoughby Spit, Virginia
Steamer Bache
1916

Dat		Letter	Vol.	Positions	Soundings	Miles	Boat	
191			_					
Sept.	1	ď,	6	45	207	9.0	Launch	
¥1	1	d'	7	68	304	12.8	\$ *	11
Htge 1	2	e *	7	65	391	12.6	17	**
14	5	f*	7	91	377	17.3	11	11
72	· 6	g•	7	38	203	9.2	11	11
, 17	7	h*	7	107	547	24.0	. 11	Ħ
. #	7	h*	8	9	42	1.4	11	Ħ
**	8	i*	8	59	399	13.9	11	11
71	9	j•	8	29	177	8.0	17	77
##	14	k.	8	66	436	13.8	rf	**
11	15	m •	8	80	440	15.6		F f
19	18	n •	8	20	116	3.2	11	17
17	18	n.	9	61	346	13.1	11	11
#	19	p.	9	87	645	11.0	Ħ	71
, tt	20	q .•	9	97	735	18.2	ŦŤ	77
Ħ	21	r, t	10	72	526	16.5	71	**
79	22	s. •	10	35	233	7.4	11 - 1	71
27	25	t •	10	102	713	19.4	F\$	11
¥Ť	26	u*	10	43	357	9.1	**	71
79	26	u*	11	25	227	5.3	11	n
ř†	27	y: *	11	15	88	2.3	3 1	71
**	29	W.*	11	53	397	^	11	71
Oct.	5	x*	11	55	372	ैं [*] 11 5	77	71
Ħ	7	ъ,	11	3 3	141	5.4	11	11
Ff	9	z .*	11	58	306	9.4	77	19
17	9	z •	12	48	207	8.6	21	PT
1 11	12	281	12	69	251	10.5	n	11
77	16	b**	12	41	143	2.8	17	77
11	20	011	12	-1	26	0.5	T	**
Det.	28	ď.,	12	18	70	2.6		
n n	30	ett	12	40			New port	Laundo
	20	o	1€	40	175	6.0		
			7	1635	9597	310 9		
Grand	Total.		17	4899	27387	1002 8		

Tidal Note
Reference Planss
Lynhaven Inlet Tide Staff, 2.8 feet
Willoughby Spit " 2.8 feet

Statistics Sheet No. 3923.

Cape Henry to Willoughby Spit, Virginia
Steamer Bache
1916

			1310			
Date 1916	Letter	Vol.	Positions	Soundings	Miles	Boat
July 11	A:	1	157	1175	36.8	D1
" 12-		1^{\prime}	134	917	32.8	Bache
" 12 -	.В В.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	41	2 2 5		
" 13	C.	25	208	1262	9.8	#
" 14-	D .	2	78	467	51. 8	17
" 14-	\mathbf{D}° .	3	7 6	432	23.0	. 11
Dec. 29	E	. 3	148	931	19.0	
1917			140	₽IJŢ	36.2	11
Jan. 6	Tr	3	122	597	20.0	
n 8 (-	G.	3	25	132	29.0	99
n 8	G `	4	117		6.9	#
" 9	H	4	112	7 28	38.1	. H
Total Bache	· · · · · · · · · · · · · · · · · · ·	. 4	1218	705	36.0	Ħ
			1210	7571	319 4	
1916				•		
July 7	a.	1	20	* 0.0		
m 8	b	i	40	106	2.8	Launch 52
" 10	C _r	i		237	5.5	12 11
" 11	đ.	1	68	355	11.0	. # #
" 12	Q		111	701	21.7	18 89
* 13	· f	1 2	85	521	19.0	17 11
. " 17		2	100	677	17.4	1f 19
* 18	හි h	2	108	651	25.7	ं भ स
" 21	k	2	29	149	5.8	77 78
" 21	k		60	324	11.3	17 11
. " 22	m.	3	26.	159	3.2	77 67
" 24		3	50	309	12.0	п я
n 25	n	3	67	366	14.2	57 17
* 26	p	3	99	237	21.4	# #
26 × 26	$\mathbf{q}_{\mathbf{i}}$	3	87	487	17.8	27 19
# 27	q	4	· 12	84	2.4	11 11
* 28	F	4	112	678	25.9	F7 17
Attg. 10	S-	4	28	144	5.4	ri n
" 11	t	4	68	334	14.0	11 11
" 12	u ·	4	26	1,37	3.0	n n
	v	4 .	, 66	329	7.1	** **
<u></u>	7	5	18	95	4.3	
7.4	W.	5	7 6	397	16.1	19 19
" 15	x	5	16 2	608	33 . 5	H
" 21	3 .	5	144	379	23.8	म ॥
n 22	Z .	5 5 5 5 5 6	68 122		10.5	и п
u 22 u 23	Z.		122	241 399 .	10.5 19.1	11 11
	a†	6	72	227	10.0	rr rr
.25	ъ,	6	20	90	2.8	स भ
11 28	C *	6	100	489	17.8	FF \$\$
		6	2046	10219	372 5	

HYDROGRAPHIC SHEET 3923.

Chesapeake Bay, Virginia, by party of Assistant P.C.Whitney in 1916.

TIDES.

	Lynnhaven Inlet. Feet.	Willoughby Spit. Feet.
Mean low water, or plane of reference on staff	2.8	2.8
Mean range of tide	2.0	2.6

Hyd. SLet # 3923 This sheet was protosacted in the field by. L. g. Hower & g. N. Durgin, with the exception of position 67 a' - 72 a' inclusine which were platted on the shet were penciled in the office. corrected at the time the coundings were plotted - reprotoacting them when by inspection they appeared incorrectly statled. He area appears to be very well concred un for an it went but the work laid out for the ship war not completed (See 2d TP of Descriptive Report) This lack of work miducles the main channel to the earl of the area covered by the ship. The sounding "21th accorning I munite after 77 E' (Ship - p 27 Vol 3) appeare to be a fathom It small. Also the counding "28 th occurring 1/2 min before 124 E' (Chip - p 34 Kal 3) is apparently a fathorn to chep. This one war omitted in platting the roundings. the soundings by the launch men apparently more trustworthy them those by the ship on the long finger like projection and undentations in the alight curves are not nearly as pronounced in the work done by the launch as in that down by the ship. The divergence between lanch work and ship work where the two over lap um all the war from 0 - 7' marked inegularities in the depth curver

In the case of the shoal mounded by the 18 ft curve & the 928. of Think Stool L. H. (new) one line slows 19 and to ft of water one the sheal cutting i completely in two. Probably insorrect. In the shannel S. E. from White Shoul I. N. , 36 ft of water is shown on all lives crossing it but several faith show In comparing the shatwell ald work ar slown on parts of fleets 2861, 2866, 2867 and 3041 The following things were noted: The cluster of small shouls to the y. C. of "Black Br" on 2861 Low filled til on #3923 it stown ar one large shoul point. also the location of the 6' curve in the Bay Dof Willoughley spil har changed qualty. On 2866 the soul founded by the 18' come T. E. of Thinks Boat L. N. in net aut accron en in 3923 adding my the incorrection of the line 15 E 19 E (Ship) Om comparing with 2867, the area common to the two thats seem in general to how shepened slightly. In companion with 3041 on in the cases of the other mentioned above slanger inflicient to very much change the slape of the clipth curver fore toten

place, though no very great clipth change were noticed in the companione. Changer aggreen A she very general tomener over the whole area hetween Lynnhouen Sucht and the mestern himte of #3923

Howard S. Prapplye Topographie Drafteman

May 19 th 1917.

Soundings shown in feet

Protracted by field party Soundings plotled by H. Of